

	Document ID	Issue Date	Pages	Title	Current OR
1	US 20070014377 A1	20070118	21	Data communication with embedded pilot information for timely channel estimation	375/267
2	US 20060233281 A1	20061019	17	Method and/or system for space-time encoding and/or decoding	375/299
3	US 20060203894 A1	20060914	28	Method and device for impulse response measurement	375/148
4	US 20060203777 A1	20060914	11	Apparatus and method for allocating user in a multiple antenna mobile communication system supporting multi-user diversity	370/334
5	US 20060153319 A1	20060713	12	Receiver hardware reduction for spatially independent signals and associated methods	375/347
6	US 20060109926 A1	20060525	18	Method and apparatus for transmitting data in a time division duplexed (TDD) communication system	375/260
7	US 20060078066 A1	20060413	32	Apparatus and method for minimizing a PAPR in an OFDM communication system	375/299
8	US 20060045200 A1	20060302	31	Signal receiving method in MIMO system and device therefor	375/267
9	US 20060018403 A1	20060126	13	Optimized high rate space-time codes for wireless communication	375/299
10	US 20050249111 A1	20051110	14	Method and apparatus for detecting STBC-OFDM signals in time-variant channels	370/210
11	US 20050180360 A1	20050818	55	Preamble formats for MIMO wireless communications	370/334
12	US 20050105657 A1	20050519	52	Coherent track for FM IBOC receiver using a switch diversity antenna system	375/347
13	US 20050105632 A1	20050519	30	System and method for channel bonding in multiple antenna communication systems	375/267
14	US 20040252796 A1	20041216	15	STTD encoding for PCCPCH	375/347
15	US 20040184570 A1	20040923	11	Method and apparatus for reducing interference within a communication system	375/346
16	US 20040161060 A1	20040819	14	Communication station having an improved antenna system	375/343
17	US 20030185319 A1	20031002	23	Modified branch metrics for processing soft decisions to account for phase noise impact on cluster variance	375/347
18	US 20030063695 A1	20030403	22	Adaptive multi-channel, multi-function	375/347

	Inventor
1	Pirak; Chaiyod et al.
2	Chen; Hangjun et al.
3	Ventola; Mika
4	Kim; Eung-sun et al.
5	Gorsuch; Thomas E. et al.
6	Jalali; Ahmad et al.
7	Yun; Sung-Ryul et al.
8	Bocquet; Wladimir
9	Wang; Jibing et al.
10	Jeon, Won Gi et al.
11	Hansen, Christopher J. et al.
12	Kroegeer, Brian W. et al.
13	Catreux-Erces, Severine et al.
14	Dabak, Anand Ganesh et al.
15	Thomas, Timothy A. et al.
16	Lomp, Gary R. et al.
17	Kolze, Thomas J.
18	Lee, Jim P.Y.

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19	US 20030031276 A1	20030213	9	Decoder, and an associated method, for decoding space-time encoded data	375/340
20	US 20030031234 A1	20030213	38	System and method for received signal prediction in wireless communications systems	375/147
21	US 20030021351 A1	20030130	17	System and method for circulant transmit diversity	375/267
22	US 20020150182 A1	20021017	17	Spatial processing and timing estimation using a training sequence in a radio communications system	375/343
23	US 20010031019 A1	20011018	8	Multiple transmit antenna differential detection from generalized orthogonal designs	375/267
24	US 7177365 B2	20070213	30	Space-time trellis code for orthogonal frequency division multiplexing (OFDM)	375/267
25	US 7154970 B1	20061226	6	Differential transmitter diversity technique for wireless communications	375/347
26	US 7120200 B2	20061010	9	Transmitter diversity technique for wireless communications	375/267
27	US 7110480 B1	20060919	22	Adaptive array apparatus	375/347
28	US 7103325 B1	20060905	16	Adaptive modulation and coding	455/101
29	US 7099413 B2	20060829	27	Method for near optimal joint channel estimation and data detection for COFDM systems	375/347
30	US 7095791 B2	20060822	10	OFDM interference cancellation based on training symbol interference	375/260
31	US 7072613 B2	20060704	40	Wireless communication medium processing apparatus and wireless communication medium processing system	455/13.3
32	US 7062001 B2	20060613	22	Adaptive multi-channel, multi-function	375/347
33	US 7061969 B2	20060613	145	Vertical adaptive antenna array for a discrete multitone spread spectrum communication system	375/147
34	US 7010029 B1	20060307	7	Equalization of transmit diversity space-time coded signals	375/229
35	US 6934323 B2	20050823	21	Adaptive array antenna-based CDMA receiver that can find the weight vectors with a reduced amount of calculations	375/152
36	US 6891903 B2	20050510	7	Multiple transmit antenna differential detection from generalized orthogonal designs	375/299

	Inventor
19	Boariu, Adrian
20	Smee, John Edward et al.
21	Talwar, Shilpa
22	Dogan, Mithat C. et al.
23	Jafarkhani, Hamid et al.
24	El-Gamal; Hesham et al.
25	Jafarkhani; Hamid et al.
26	Alamouti; Siavash et al.
27	Iinuma; Toshinori
28	Jia; Ming et al.
29	Chuang; Justin C. et al.
30	Jones, IV; Vincent K. et al.
31	Tanaka; Masahiko et al.
32	Lee; Jim P. Y.
33	Alamouti; Siavash et al.
34	Naguib; Ayman F et al.
35	Hara; Yoshitaka
36	Jafarkhani; Hamid et al.

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37	US 6888899 B2	20050503	49	Spatio-temporal processing for communication	375/299
38	US 6876693 B2	20050405	8	Method for processing signal in communications system having plurality antennas	375/144
39	US 6873651 B2	20050329	21	System and method for joint maximal ratio combining using time-domain signal processing	375/219
40	US 6853629 B2	20050208	35	Method for frequency division duplex communications	370/330
41	US 6834043 B1	20041221	26	Method and device for exploiting transmit diversity in time varying wireless communication systems	370/310
42	US 6826240 B1	20041130	29	Method and device for multi-user channel estimation	375/340
43	US 6801589 B1	20041005	20	Relative timing acquisition for a radio communications system	375/343
44	US 6785520 B2	20040831	24	System and method for antenna diversity using equal power joint maximal ratio combining	455/101
45	US 6782039 B2	20040824	146	Vertical adaptive antenna array for a discrete multitone spread spectrum communications system	375/147
46	US 6775329 B2	20040810	11	Transmitter diversity technique for wireless communications	375/267
47	US 6741635 B2	20040525	8	Near-optimal low-complexity decoding of space-time codes for fixed wireless applications	375/144
48	US 6724828 B1	20040420	9	Mobile switching between STTD and non-diversity mode	375/267
49	US 6693982 B1	20040217	12	Minimum mean squared error approach to interference cancellation and maximum likelihood decoding of space-time block codes	375/341
50	US 6680699 B2	20040120	17	Signal reception method and device	342/378
51	US 6650714 B2	20031118	16	Spatial processing and timing estimation using a training sequence in a radio communications system	375/343
52	US 6603806 B2	20030805	22	Method and apparatus for high data rate wireless communications over wavefield spaces	375/219

	Inventor
37	Raleigh; Gregory G. et al.
38	Sim; Dong Hi
39	Tesfai; Yohannes et al.
40	Alamouti; Siavash et al.
41	Vook; Frederick W. et al.
42	Thomas; Timothy A. et al.
43	Dogan; Mithat C.
44	Sugar; Gary L. et al.
45	Alamouti; Siavash et al.
46	Alamouti; Siavash et al.
47	Lo; Titus et al.
48	Dabak; Anand G.
49	Naguib; Ayman F. et al.
50	Voyer; Nicolas
51	Dogan; Mithat C. et al.
52	Martone; Massimiliano Max

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53	US 6584144 B2	20030624	143	Vertical adaptive antenna array for a discrete multitone spread spectrum communications system	375/147
54	US 6580701 B1	20030617	13	Interpretation of a received signal	370/334
55	US 6456675 B2	20020924	18	Diversity reception employing periodic testing	375/347
56	US 6335954 B1	20020101	24	Method and apparatus for joint synchronization of multiple receive channels	375/354
57	US 6330294 B1	20011211	12	Method of and apparatus for digital radio signal reception	375/347
58	US 6320919 B1	20011120	21	Adaptive channel characterization using decoded symbols	375/347
59	US 6178196 B1	20010123	13	Combined interference cancellation and maximum likelihood decoding of space-time block codes	375/148
60	US 6128355 A	20001003	11	Selective diversity combining	375/347
61	US 6084928 A	20000704	12	Radio environment analysis apparatus	375/347
62	US 5930243 A	19990727	20	Method and apparatus for estimating parameters of a communication system using antenna arrays and spatial processing	370/334
63	US 5862192 A	19990119	23	Methods and apparatus for equalization and decoding of digital communications channels using antenna diversity	375/347
64	US 5832389 A	19981103	25	Wideband digitization systems and methods for cellular radiotelephones	455/562.1
65	US 5787131 A	19980728	7	Method and apparatus for mitigation of self interference using array processing	375/347
66	US 5598428 A	19970128	8	DS/CDMA diversity receiver with despreading filters using combiner wherein first and second despreading filters are delayed with respect to each other by a period of half the chip rate	375/148
67	US 5550872 A	19960827	16	Method and apparatus for Fast Fourier Transform based maximal ratio combining	375/347
68	US 5528581 A	19960618	10	Diversity transmission system for sub-band diversity reception	370/203
69	US 5260968 A	19931109	22	Method and apparatus for multiplexing communications signals through blind adaptive spatial filtering	375/347

	Inventor
53	Alamouti; Siavash et al.
54	Ylitalo; Juha T. et al.
55	Wagner; Keely Anne et al.
56	Bottomley; Gregory Edward et al.
57	Ansbro; Andrew Peter et al.
58	Khayrallah; Ali S. et al.
59	Naguib; Ayman F. et al.
60	Backman; Johan et al.
61	Kuwahara; Yoshihiko
62	Parish; David M. et al.
63	Huszar; Stephen Russell et al.
64	Dent; Paul W.
65	Bottomley; Gregory E.
66	Sato; Toshifumi
67	Liberti, Jr.; Joseph C. et al.
68	De Bot; Paulus G. M.
69	Gardner; William A. et al.

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70	US 4748682 A	19880531	21	Combined diversity receiving apparatus	455/137

	Inventor
70	Fukae; Tadamasa et al.